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AREAS OF EXPERTISE

Materials Science Composites

Manufacturing and materials

EDUCATION

MTech 2012

Visvesvaraya Technological University

Ph D 2022

St Joseph Engineering College

PROFESSIONAL EXPERIENCE

St Joseph Engineering College 2009 - Present

Associate Professor

Magaluru

HONOURS AND AWARDS

MTech First Rank and Gold Medal 2012

Awarded by: VTU, Belgaum

PROFESSIONAL MEMBERSHIPS

Member of International Association of Engineers (MIAENG) 2016

212698

Life Member of Indian Society for Technical Education (ISTE) 2012

LM 114419

PUBLICATIONS

- 1. Entrepreneurship education and entrepreneurial intention: mediating effects of technical skills, technological advancement, and entrepreneurial mindset**
Raghavendra; M. Sandhya; Ravikantha Prabhu; Shwetha J. Rao; Roopesh
Higher Education, Skills and Work-Based Learning (2026)
- 2. Dry sliding wear behavior of SiC-reinforced Al-Si eutectic metal matrix composite**
Shetty A.;Bhat T.;Hegde A.;Sharma S.;Prabhu R.
Scientific Reports , Vol. 15 (2025) , pp.
- 3. Effect of magnesium solubility in eutectic Al-Si matrix SiC composites on the mechanical properties**
Shetty A.;Bhat T.;Hegde A.;Sharma S.;Prabhu R.;K N.
Journal of Materials Research and Technology , Vol. 39 (2025) , pp. 2256-2263
- 4. The effect of post-merger technological integration on customer satisfaction and continuance intention in the Indian banking sector**
Kumar R.;Madhava S.;Ganesh A.;Prabhu R.;Raghavendra R.
Journal of Economic and Administrative Sciences , Vol. (2025) , pp. 1-16
- 5. Enhancing engineering student employability: a predictive analytics approach to academic performance, skills development and placement outcomes**
Ganesh A.;Madhava S.;Kumar R.;Prabhu R.
Higher Education Skills and Work Based Learning , Vol. 15 (2025) , pp. 1083-1097
- 6. Optimizing diesel engine performance and emissions with heated high-pressure fuel lines: an experimental study**
Shashidhara V.V.;Prabhu R.;Nayak V.;Gonsalves J.;Muruges V.
World Journal of Engineering , Vol. (2025) , pp.
- 7. Impact of AICTE IDEA Lab Training on Skill Development of Diploma College Students in Advanced Manufacturing**
Vijay V.S.;Prabhu R.;Chippar P.;Belchada R.;Gatty M.
Journal of Engineering Education Transformations , Vol. 38 (2025) , pp. 405-411
- 8. Investigating the impact of TiO₂ filler on abrasive wear characteristics of bamboo fiber-reinforced epoxy composites using the Taguchi method**
Prabhu R.;Mendonca S.;Bellairu P.K.;DSouza R.C.;Bhat T.
World Journal of Engineering , Vol. 22 (2025) , pp. 237-249
- 9. Effects of Magnesium Content and Age Hardening Parameters on the Hardness and Ultimate Tensile Strength of SiC-Reinforced Al-Si-Mg Composites**
Shetty A.;Bhat T.;Sharma S.;Hegde A.;K N.;Prabhu R.;Anne G.
Journal of Composites Science , Vol. 9 (2025) , pp.
- 10. Enhancing engineering education through mini project-based learning in computer integrated manufacturing laboratory: A student-centric approach**
Prabhu R.;Mendonca S.;Bellairu P.K.;Shiri N.D.
Innovations in Education and Teaching International , Vol. 62 (2025) , pp. 971-985
- 11. Analyzing the impact of TiO₂ filler on the wear characteristics of flax fiber-reinforced epoxy composite using the Taguchi approach**

Prabhu R.;Mendonca S.;Bellairu P.K.;DSouza R.C.;Bhat T.
World Journal of Engineering , Vol. 22 (2025) , pp. 1029-1038

12. **Effect of TiO₂ filler on mechanical and tribological properties of Owen bamboo fiber reinforced epoxy composite**
Prabhu R.;Mendonca S.;Bellairu P.K.;DSouza R.C.;Bhat T.
World Journal of Engineering , Vol. 21 (2024) , pp. 781-792
13. **Optimization of dry sliding wear performance of TiO₂ filled bamboo and flax fiber reinforced epoxy composites using Taguchi approach**
Prabhu R.;Mendonca S.;Bellairu P.K.;D'Souza R.C.;Bhat T.
World Journal of Engineering , Vol. 21 (2024) , pp. 882-893
14. **Modeling and analysis of TiO₂ filler's impact on specific wear rate in flax fiber-reinforced epoxy composite under abrasive wear using Taguchi approach**
Prabhu R.;Mendonca S.;Bellairu P.K.;D'Souza R.;Bhat T.
Multidiscipline Modeling in Materials and Structures , Vol. 20 (2024) , pp. 546-557
15. **Impact of stacking sequence on mechanical and dry sliding wear properties of bamboo and flax fiber reinforced hybrid epoxy composite filled with TiO₂ filler**
Prabhu R.;Mendonca S.;Bellairu P.K.;D'Souza R.;Bhat T.
Multidiscipline Modeling in Materials and Structures , Vol. 20 (2024) , pp. 1180-1191
16. **Modeling and analysis of the effects of age hardening, magnesium dissolution, and SiC reinforcement on wear properties in eutectic Al-Si composites using full factorial techniques**
Shetty A.;Bhat T.;Sharma S.;Prabhu R.;Hegde A.;Nithesh K.;Anne G.
Materials Research Express , Vol. 11 (2024) , pp.
17. **Influence of hydrogen enhancement on diesel engine fueled with Simarouba Glauca DC biodiesel withAqueous Al₂O₃ blends**
Sharun Mendonca; Ravikantha Prabhu; Thirumaleshwara Bhat; Rudolf Dsouza; Pavana Kumara Bellairu
YMER , Vol. 23 (2024) , pp. 4
18. **Transforming ideas into products: Project based learning in prototyping, fabrication, and testing course for first year engineering students**
Shashidhara V.V.;Prabhu R.;Chippar P.
International Journal of Mechanical Engineering Education , Vol. (2024) , pp.
19. **Optimization production of simarouba biodiesel and performance study using design of Experiments in CI engine**
Sharun Mendonca, Ravikantha Prabhu , Thirumaleshwara Bhat , Rudolf D'Souza ,Pavana Kumara Bellairu
YMER , Vol. 22 (2023) , pp. 1070-1087
20. **Effect of Water Absorption on the Mechanical Properties of Alkaline Treated Bamboo and Flax Fiber Reinforced Epoxy Composites**
Prabhu R.;Mendonca S.;D'souza R.;Bhat T.
Trends in Sciences , Vol. 19 (2022) , pp.
21. **Experimental Analysis of Influence of Injection Pressure on Compression Ignition Engine with Biodiesel and Nanoparticles Blend**
Mendonca S.;Bhat T.;Prabhu R.;Dsouza R.

22. **EXPERIMENTAL ANALYSIS OF INFLUENCE OF INJECTION TIMING ON COMPRESSION IGNITION ENGINE WITH BLEND OF BIODIESEL AND NANOPARTICLES**

Sharun Mendonca, Thirumaleshwara Bhat, Ravikantha Prabhu, Rudolf Dsouza
JOURNAL OF CRITICAL REVIEWS , Vol. 7 (2020) , pp. 10

23. **Modeling and analysis for wear performance of coconut shell powder filled glass fiber composite using Taguchi approach**

Pereira K.P.S.;Sheikh M.A.T.;Prabhu R.
Aip Conference Proceedings , Vol. 2236 (2020) , pp.

24. **Adsorption based solar refrigeration system**

Vas J.P.;D'Souza R.C.;Prabhu R.;Mendonca S.
Aip Conference Proceedings , Vol. 2080 (2019) , pp.

25. **Application of Taguchi techniques to study the effect of alkaline treatment and fiber length on mechanical properties of short bamboo fiber reinforced epoxy composites**

Prabhu R.;Mendonca S.;D'Souza R.;Vas J.P.;Bhat T.
Aip Conference Proceedings , Vol. 2080 (2019) , pp.

26. **Influence of Aluminium Oxide Nanoparticles in a Compression Ignition Engine with Simarouba Biodiesel**

Mendonca S.;Prabhu R.;Bhat T.
Iop Conference Series Materials Science and Engineering , Vol. 376 (2018) , pp.

27. **Development and characterization of low cost bamboo fibre reinforced polymer composites**

Prabhu, Ravikantha and Joel, C and Bhat, T
Am J Mater Sci , Vol. 7 (2017) , pp. 130--134

28. **Fabrication and Analysis of Jute, Glass and Flax Hybrid Composites Using Rice Husk Charcoal as Filler Material**

Prabhu, Ravikantha and Prathviraj, H and John, Basil and Akhil, K and Chris, Adithya C and Prajwal, Thirumaleshwara Bhat
American Journal of Materials Science , Vol. 7 (2017) , pp. 135--139

29. **Investigation of tribological property of coconut shell powder filled epoxy glass composites**

Prabhu, Ravikantha and Rahul, MP and Aeilias, Ajith and Sunny, Bestin and Alok, J and Bhat, Thirumaleshwara
Ame J Mater Sci , Vol. 7 (2017) , pp. 174--184

30. **Application of Taguchi method to predict the abrasive wear behavior of CP titanium**

Serrao, Pruthvi and Prabhu, R and Chiranth, B and Mohammed, Y
J. Mech. Eng. Autom , Vol. 6 (2016) , pp. 13--17

31. **Processing and Testing of Hybrid Sandwich Composites for Vibration Damping and Mechanical Properties**

Sushmita, M; Hemanth, K; Ravikantha Prabhu, Sharath Meloth C; Binu, KG
Journal of Mechanical Engineering and Automation , Vol. 6 (2016) , pp. 22--27

32. **Mechanical and Tribological Properties of Injection Moulded Modified CaCO₃/PP, LDPE Composites**

Prabhu, Ravikantha and Mendonca, Sharun and Darren, Gladson and Bhat, Thirumaleshwara
American Journal of Materials Science , Vol. 6 (2016) , pp. 61--66

33. **Dhyanchandra, "Development and characterization of low cost polymer composites from coconut coir,"**
Prabhu, R and Amin, AK
American Journal Materials Sciences , Vol. 5 (2015) , pp. 62--68
34. **Effect of filler content on the performance of epoxy/PTW composites**
Sudheer M.;Prabhu R.;Raju K.;Bhat T.
Advances in Materials Science and Engineering , Vol. 2014 (2014) , pp.
35. **Hybrid effect of ceramic whiskers and graphite flakes on mechanical and dry sliding performance of epoxy composites**
M. Sudheer, Ravikantha Prabhu, K. Raju, Thirumaleshwara Bhat
National Conference on Challenges in Research & Technology in the Coming Decades (CRT 2013) , Vol. (2013) , pp.
36. **Modeling and analysis for wear performance in dry sliding of epoxy/glass/PTW composites using full factorial techniques**
M. Sudheer, Ravikantha Prabhu, K. Raju, Thirumaleshwara Bhat
ISRN Tribology , Vol. 2013 (2013) , pp. 1-12
37. **Hybrid effect of ceramic whiskers and graphite flakes on mechanical and dry sliding performance of epoxy composites**
Sudheer M.;Prabhu R.;Raju K.;Bhat T.
Iet Conference Publications , Vol. 2013 (2013) , pp.
38. **Effect of cutting parameters on cutting force and surface roughness of aluminium components using face milling process-a Taguchi Approach**
Sequeira, Anil Antony and Prabhu, Ravikantha and Sriram, NS and Bhat, Thirumaleshwara
IOSR Journal of Mechanical and Civil Engineering , Vol. 3 (2012) , pp. 7-13
39. **Optimization of dry sliding wear performance of ceramic whisker filled epoxy composites using taguchi approach**
Sudheer M.;Prabhu R.;Raju K.;Bhat T.
Advances in Tribology , Vol. (2012) , pp.